Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended) A method for detection and identification of constituents of extracts from plants or animals, natural or synthetic sources possessing medicinal value, using chromatographic finger printing techniques, the method comprising the steps of:

- i. extracting organic or organo-metallic compounds from plants or animal,
 natural or synthetic sources using a suitable solvent;
- ii. subjecting the extract obtained in step i. to separation based on pH and polarity, using High Pressure Liquid Chromatography (HPLC) techniques;
- iii. generating contour and 3D chromatograms of the constituents eluted in step ii. based on pH and polarity;
- iv. converting the 3-D and contour chromatogram obtained into a colored image, analyzing the colored image for its individual colors using the co-ordinates denoting all its 3-dimensional properties of said image by using a newly developed in built software;
 - v. denoting the concentrations of the various constituents eluted with time;
- vi. generating a chromatogram based on color analyzed, having peaks at various retention times along with conjugative properties of the constituents;

vii. identifying the compounds in said ingredients by the Ultra Violet and Visible electromagnetic radiation absorptive properties of the various constituents in the

image;

viii. identifying, determining and classifying the compounds eluted as polar,

medium polar and less or non-polar based on the polarity and conjugative properties;

ix. generating a barcode for a selected peak using the X-axis as Retention

Time, the Y-axis as Wavelength, R as number of Red Pixels, G as number of Green

Pixels and B as number of Blue Pixels; and

x. generating a database of fingerprints and barcodes and identifying the

respective compounds of the extract.

Claim 2 (previously presented) A method as claimed in claim 1, wherein the

solvents with different polarities are used for extraction based on the hydrophilic and

hydrophobic nature of the constituents present in the sample under study, and ethyl

alcohol is used as a solvent for preparation and for standardization of medicinal

extracts.

Claim 3 (previously presented) A method as claimed in claim 1, wherein the

fingerprints are developed for the same medicinal extract under different pH ranges.

Claim 4 (previously presented) A method as claimed in claim 1, wherein the

HPLC technique used is by employing any commercially available HPLC apparatus with

the Photo Diode Array detector, preferably with a gradient or ternary system of pumps.

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Claim 5 (previously presented) A method as claimed in claim 1, wherein the

method is carried out using standard analytical parameters like extraction with ethyl

alcohol, maintaining a run time of 0-60 minutes, eluting with a mobile phase of

acetonitrile along with a phosphate buffer having a pH in the range of 5.5-7.5, and an

Ultra Violet and Visible detector having the electromagnetic radiation range of 200-

800nm for fingerprinting, chemical and therapeutic standardization.

Claim 6 (previously presented) A method as claimed in claim 1, wherein the

solvent used in step iii. is selected from a group consisting of the non-aqueous, organic

and aqueous, water or buffer at a known pH are selected based on the range of polarity.

Claim 7 (previously presented) A method as claimed in claim 1, wherein

converting the contour chromatograms into a color image consisting of conjugative and

polarity properties of the constituents of the medicinal extract under study.

Claim 8 (previously presented) A method as claimed in claim 1, wherein the

therapeutic efficacy of a medicinal extract (single or formulated) is assessed using the

quality of the constituents present in a particular polarity and UV-Vis absorptive zone.

Claim 9 (previously presented) A method as claimed in claim 1, wherein the

software generates a barcode for a selected peak or peaks or image using the X-axis as

Retention Time, the Y-axis as Wavelength, R as number of Red Pixels, G as number of

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Green Pixels and B as number of Blue Pixels as the coordinates, provided by the software, which makes the product propriety for an industry.

Claims 10 through 18 (cancelled)

Claim 19 (currently amended) A method as claimed in claim 1 which is a computational method of chromatographic finger printing, chemical and therapeutic standardization and bar coding of organic and organo-metallic molecules from a plant, animal or a naturally available or man-made materials used as medicines, the method comprising

- (a) selecting plant, animal or a naturally-available or man-made material which possess medicinal value, and extracting the constituents,
- (b) separating the constituents into individual compounds by subjecting the extract to separation based on pH and polarity using chromatography, generating and converting the 3-D and contour chromatograms into fingerprints,
 - (c) analyzing the fingerprints using the software developed, and
 - (d) interpreting the data.

Claim 20 (currently amended) A method as claimed in claim 1, wherein step iv provides an in-built software for chemical analysis of the constituents present in the extract under study and their conjugative and polarity properties indicating the therapeutic efficacy of the medicine as per the traditional concepts of the medicine using the new software developed.

Claim 21 (currently amended) A method as claimed in claim 1, wherein step

iv-an-in-built software provides a novel concept for obtaining chromatographic finger

printing of material having medicinal value for the quick identification of the actual profile

of the compounds present in the medicine under use along with the therapeutic efficacy

of the constituents.

Claim 22 (currently amended) A method as claimed in claim 1 wherein in step

iv an in-built software provides a novel chromatographic finger printing of herbal

medicines and formulations using the contour and 3-D chromatograms of the herbal

medicines and formulations is proposed and they are developed on a Photo Diode

Array Detector (PDA) of a High Pressure Liquid Chromatography, which delineates the

data of the spectral properties of the constituents present in the material having

medicinal value, presented in a specific order of polarity, generated under similar

experimental analytical conditions.

Claim 23 (cancelled)

Claim 24 (previously presented) A method as claimed in claim 1, wherein in

step vii "The Chromatographic Fingerprint" is the blue print of the constituents present in

an herbal medicine or formulation for an assay and quick identification of the medicine

under study.

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Claim 25 (previously presented) A method as claimed in claim 1, wherein same

standard analytical parameters like extraction with same solvent ethyl alcohol, same run

time 0-60min, same mobile phase acetonitrile along with phosphate buffer having a pH

in the range of 5.5-7.5, and a same UV-Visible Range of 200-800nm for fingerprinting

and chemical and therapeutic standardization.

Claim 26 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of adulterated, substituted,

contradictual and commercial food and drug samples and to identify the pure and

impure.

Claim 27 (previously presented) A method as claimed in claim 21, wherein

fingerprint data obtained are used for identifying the chemical constituents present in it

for the purpose of process standardization, quality control activities and therapeutic

standardization of Allopathic, Ayurvedic, Homoeo, Siddha, Unani, Chinese, Tibetan,

Kampo (Japanese) medicines.

Claim 28 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of variation of chemical constituents

due to various ecological factors, geological factors, genotypic and phenotypic

variations (in plants) in naturally occurring samples and to identify and standardize the

chemical constituents in them.

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Claim 29 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of chemical constituents in

synthetically prepared samples and to identify and standardize the chemical

constituents in them for chemical and therapeutic standardization whichever is

applicable.

Claim 30 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of chemical constituents in herbal

products of single medicine samples and to identify the chemical constituents in them

for chemical and therapeutic standardization.

Claim 31 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of chemical constituents in herbal

products of formulated medicine samples and to identify the chemical constituents in

them for chemical and therapeutic standardization.

Claim 32 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of variation of chemical constituents

in biological samples and to identify and standardize the chemical constituents in them

for chemical and therapeutic standardization.

Claim 33 (previously presented) A method as claimed in claim 1, wherein the

fingerprinting data obtained are used for the study of variation of chemical constituents

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in different brands of products of single and formulated food and medicine samples and

to identify the chemical constituents in them for chemical and therapeutic

standardization.

Claim 34 (previously presented) A method as claimed in claim 1, wherein in

step ix preparation of a database of a large number samples gives many

generalizations of the therapeutic efficacy of a particular group of plants, classified as a

group for a particular disease or therapeutic classification.

Claims 35 through 47 (cancelled)

Claim 48 (currently amended) Use of fingerprints of contour and 3-D

chromatograms of the constituents as claimed in any of the preceding claims are the

basis for identification of chemical constituents in determining the efficacy of a chemical

composition by comparing the obtained fingerprints and chromatograms against known

efficacy data of medicinal compositions.

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